



JC06 Rec'd PCT/PTO 15 SEP 2005 PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): SALOMA et al.

Serial No.: 10/529,043

For: TWO COLOR (TWO-PHOTON) EXCITATION WITH FOCUSED EXCITATION BEAMS AND RAMAN SHIFTER

Filed: March 24, 2005

Examiner: Not Yet Assigned

Art Unit: Not Yet Assigned

Confirmation No.: 6211

Customer No.: 27,623

Attorney Docket No.: 0002200USU/2280

**Mail Stop Missing Parts
COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450**

Dear Sir:

**TRANSMITTAL OF MISSING PARTS OF APPLICATION AND
PAYMENT OF SURCHARGE UNDER 37 C.F.R. §1.16(e)**

Transmitted herewith are the following documents pertaining to the above-identified application:

- XXX** Letter re: Declaration and Power of Attorney **previously filed under 4.17**;
- XXX** The undersigned attorney has verified that the above-identified applicant is entitled to Small Entity Status.;
- _____ Sheets of Replacement Drawings;
- An Assignment of the Invention to : _____ including \$40.00 recordation fee and Assignment Recordation Cover Sheet;
- A Certified Copy of the Priority Application;
- Information Disclosure Statement (Form - 1449); and
- XXX** A copy of the Notice to File Missing Parts of Application Filing Date Granted.
- Petition and Fee for Extension of Time (37 CFR 1.136(A)).

The Filing Fee is calculated below.

CLAIMS AS FILED				
(1) For	(2) Number Filed	(3) Number Extra	(4) Rate	(5) Basic Fee \$300.00
Total Claims	- 20 =	0	x \$50.00	\$
Independent Claims	- 3 =	0	x \$200.00	\$
Multiple Dependent Claim Fee			x \$360.00	= \$0.00
SEARCH FEE				\$500.00
EXAMINATION FEE				\$200.00
NATIONAL STAGE APPLICATION SIZE FEE (\$250 FOR EACH ADDITIONAL 50 SHEETS OVER 100 SHEETS)				\$
TOTAL FILING FEE				\$
1/2 FILING FEE FOR SMALL ENTITY				\$

A check in the amount of \$_____ to cover the surcharge is enclosed.

The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. §§1.16 and 1.17 which may be required with this communication or during the entire pendency of the application, or credit any overpayment, to Deposit Account No. 01-0467. A duplicate copy of this Form is enclosed.

September 13, 2005

Date

09/23/2005 MKAYPAGH 00000122 010467 10529043

01 FC:2617

65.00 DA


Charles N.J. Ruggiero, Esq.

Attorney for Applicant(s)

Registration No. 28,468

Ohlandt, Greeley, Ruggiero & Perle, L.L.P.

One Landmark Square, 10th Floor

Stamford, Connecticut 06901-2682

Telephone: (203) 327-4500

Telefax: (203) 327-6401

CERTIFICATE OF MAILING

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE U.S. POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO: MAIL STOP MISSING PARTS, COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450, ON September 13, 2005.

Michelle M Bombino
NAME


SIGNATURE

9/13/05
DATE



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): SALOMA et al.

Serial No.: 10/529,043

For: TWO COLOR (TWO-PHOTON) EXCITATION WITH FOCUSED EXCITATION BEAMS AND RAMAN SHIFTER

Filed: March 24, 2005

Examiner: Not Yet Assigned

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Attorney Docket No.: 0002200USU/2280

**Mail Stop Missing Parts
COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450**

RESPONSE

Dear Sir:

Pursuant to our conversation with Lamont M. Hunter of September 7, 2005, we are responding to the Notice of Missing Parts dated July 28, 2005, which states that we must submit an oath or declaration of the inventors. Please note that the Declaration and Power of Attorney for the above-identified application was previously filed under the PCT application in 4.17(iv).

We are enclosing a copy of the filing transmittal submitted for the purpose of entering the U.S. National Stage, as well as a copy of the PCT publication (abstract sheet). We are also enclosing the return postcard.

If the United States Patent and Trademark Office determines that our finding is in error, please contact our office immediately.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Charles N.J. Ruggiero".

Charles N.J. Ruggiero, Esq.
Attorney for Applicant(s)
Registration No. 28,468
Ohlandt, Greeley, Ruggiero & Perle, L.L.P.
One Landmark Square, 10th Floor
Stamford, Connecticut 06901-2682
Telephone: (203) 327-4500
Telefax: (203) 327-6401

September 13, 2005

Date



UNITED STATES PATENT APPLICATION TRANSMITTAL FORM

Mail Stop PCT
COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450
Attention: DO/EO/US

Docket No.: 0002200USU/2280

Customer No.: 27623

Dear Sir:

Transmitted herewith for filing is the patent application of

Applicant(s): **Caesar A. SALOMA; Jonathan A. PALERO
and Wilson O. GARCIA**

For: **TWO-COLOR (TWO-PHOTON) EXCITATION
WITH FOCUSED EXCITATION BEAMS AND
A RAMAN SHIFTER**

International Application No.: **PCT/PH2002/00018**

International Filing Date: **27 September 2002**

ENTERING OF U.S. NATIONAL STAGE UNDER 35 U.S.C. §371

Transmitted herewith for filing are the following documents submitted under 37 C.F.R. §1.495(b) for the purpose of entering the national stage in the United States of America as an elected office. Enclosed are:

XXXXX Specification (15 pps.) consisting of: Description (11 pps.); Claims (4 pps.) and Abstract (0 page);

_____ Declaration and Power of Attorney (**previously filed under 4.17(iv)**);

XXXXX 3 sheets of drawings;

EV562406353US

_____ Preliminary Amendment;

_____ An Assignment of the invention to: _____, including \$40.00 recordation fee and recordation cover sheet;

_____ Information Disclosure Statement with copies of patent(s) (Form - PTO-1449);

XXXXX The undersigned attorney has verified that the applicant is entitled to a Small Entity Status;

- XXXXX Priority of application Serial No. **PCT/PH2002/000018**, filed on **27 September 2002** in PCT is claimed under 35 U.S.C. §119 and 35 U.S.C. §365;
- XXXXX Cover page of published PCT Publication No. **WO 2004/029690**;
- _____ Copy of International Preliminary Examination dated _____;
- _____ Copy of PCT Demand Under Article 31; and
- XXXXX Copy of International Search Report dated **17 March 2003**;
- _____ Copy of Written Opinion.
- _____ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are transmitted herewith.

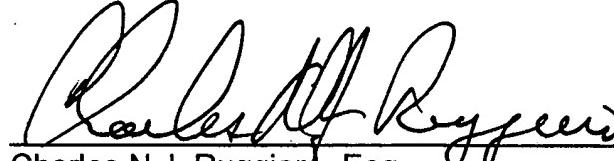
The Filing Fee is calculated below.

CLAIMS AS FILED				
(1) For	(2) Number Filed	(3) Number Extra	(4) Rate	(5) Basic Fee \$300.00
Total Claims	24 - 20 =	4	x \$50.00	\$200.00
Independent Claims	2 - 3 =	0	x \$200.00	\$
Multiple Dependent Claim Fee				x \$360.00 = \$0.00
SEARCH FEE				\$500.00
EXAMINATION FEE				\$200.00
NATIONAL STAGE APPLICATION SIZE FEE (\$250 FOR EACH ADDITIONAL 50 SHEETS OVER 100 SHEETS)				\$
TOTAL FILING FEE				\$1,200.00
1/2 FILING FEE FOR SMALL ENTITY				\$600.00

- XXX Firm's check in the amount of **\$ 600.00** to cover the filing fee (small entity);
- XXX The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. 1.16 and 1.17 which may be required with this communication or during the entire pendency of the application, or credit any overpayment, to **Deposit Account No. 01-0467**. A duplicate copy of this Form is enclosed.
- XXX Postcard.

Address all future communications to: **Charles N.J. Ruggiero, Esq.**
Ohlandt , Greeley, Ruggiero & Perle, L.L.P.
One Landmark Square, 10th Floor
Stamford, Connecticut 06901-2682
U.S.A.

Dated: March 24, 2005



Charles N.J. Ruggiero, Esq.
Registration No. 28,468
Attorney for Applicant(s)
Ohlandt, Greeley, Ruggiero & Perle, L.L.P.
Telephone: (203) 327-4500
Telefax: (203) 327-6401

CERTIFICATE OF EXPRESS MAILING

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Certificate No. **EV562406353US**, service under 37 CFR §1.10 and is addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, Attn: DO/EO/US on March 24, 2005.

Joanne A. Romaniello
(Typed name of person mailing paper)


(Signature of person mailing paper)

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
8 April 2004 (08.04.2004)

PCT

(10) International Publication Number
WO 2004/029690 A1

(51) International Patent Classification⁷: **G02B 21/00**, G01N 33/487

(21) International Application Number:
PCT/PH2002/000018

(22) International Filing Date:
27 September 2002 (27.09.2002)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicants and

(72) Inventors: **SALOMA, Caesar, A.** [PH/PH]; National Institute of Physics, College of Science, University of the Philippines, Diliman, Quezon City 1101 (PH). **PALEROS, Jonathan, A.** [PH/PH]; National Institute of Physics, College of Science, University of the Philippines, Diliman, Quezon City 1101 (PH). **GARCIA, Wilson, O.** [PH/PH]; National Institute of Physics, College of Science, University of the Philippines, Diliman, Quezon City 1101 (PH).

(74) Agent: **VILLARAZA & ANGANGCO LAW OFFICES AND ITS ATTORNEYS**; 5th Floor, LTA Building, 118 Perea Street, Legaspi Village, 1229 Makati City (PH).

(54) Title: TWO-COLOR (TWO-PHOTON) EXCITATION WITH FOCUSED EXCITATION BEAMS AND A RAMAN SHIFTER

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

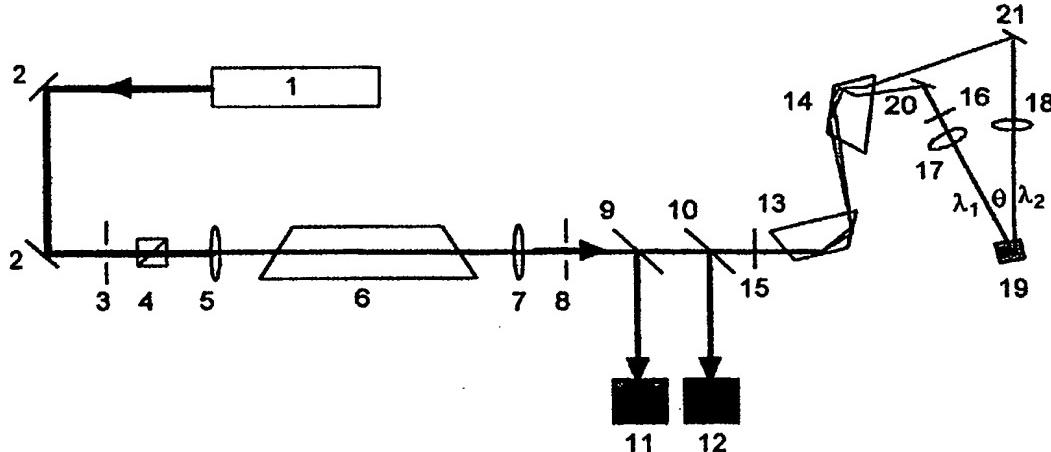
Declarations under Rule 4.17:

- of inventorship (Rule 4.17(iv)) for US only
- of inventorship (Rule 4.17(iv)) for US only

Published:

- with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(57) Abstract: Two-color (two-photon) excitation with two confocal excitation beams is demonstrated with a Raman shifter as excitation light source. Two-color excitation fluorescence is obtained from Coumarin 6H dye sample (peak absorption = 394 nm, peak fluorescence = 490 nm) that is excited using the first two Stokes outputs (683 nm, 954 nm, two-color excitation = 398 nm) of a Raman shifter pumped by a 6.5 nsec pulsed 532 nm-Nd:YAG laser (Repetition rate = 10 Hz). The two Stokes pulses overlap for a few nanoseconds and two-color fluorescence is generated even with focusing objectives of low numerical apertures (NA ≤ 0.4). We observed the linear dependence of the two-color fluorescence signal with the product of the average intensities of the two Stokes excitation beams. The two-color fluorescence distribution is strongly localized around the common focus of the confocal excitation beams.

WO 2004/029690 A1

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PLACE
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06901

Ohlandt, Greeley, Ruggiero & Perle, L.L.P.
One Landmark Square, 10th Floor
Stamford, Connecticut 06901-2682

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APR 15 2005

OHLANDT, GREELEY
RUGGIERO & PERLE, LLP

|||||

JCO2 Rec'd PCT/PTO 24 MAR 2005
File No.: 0002200450 Application No.:

10/529043

SERIAL NUMBER NOTIFICATION

APPLICATION BRANCH: Please stamp Serial Number assigned to this case and return card to sender.

Applicant(s): Cesare G. Saloma; Jonathan A. Palero & Wilson D. Garcia

Title: Two-Color (Two-Photon) Excitation With Focused Excitation Beams and a Raman Shifter

15

- Total # of Pages of Specification
11 Sheets of Description
4 Sheets of Claims
1 Sheets of Abstract
3 Sheets of Drawings
Filed previous Combined Declaration & POA
Assignment w/recording sheet
Priority Document

- Verified Statement Claiming Small Entity
 IDS and PTO Form 1449 (w/copies of references)
 Preliminary Amendment
 Provisional Application Cover Sheet
 Rule 53(b) Continuation/Divisional
 Other: Copy of PCT Publn, ISR
 Transmittal Letter (in duplicate)

A check in the amount of \$ 600⁰⁰

(# 14837) is also attached hereto.

Mailed March 24, 2005

□ COM COEM # EV562406353U

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
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 P.O. Box 1450
 Alexandria, Virginia 22313-1450
www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/529,043	Caesar A Saloma	0002200USU/2280
		INTERNATIONAL APPLICATION NO.
		PCT/PH02/00018
		IA. FILING DATE PRIORITY DATE
		09/27/2002
CONFIRMATION NO. 6211		
371 FORMALITIES LETTER		
 OC000000016633871		

Date Mailed: 07/28/2005

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Indication of Small Entity Status
- Copy of the International Application filed on 03/24/2005
- Copy of the International Search Report filed on 03/24/2005
- Small Entity Statement filed on 03/24/2005
- Request for Immediate Examination filed on 03/24/2005
- U.S. Basic National Fees filed on 03/24/2005

R E C E I V E D

AUG 02 2005

OHLANDT, GREELEY,
 RUGGIERO & PERLE, LLP

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- **\$65** Surcharge for providing the oath or declaration later than 30 months from the priority date (37 CFR 1.492(e)) is required.

SUMMARY OF FEES DUE:

Total additional fees required for this application is **\$65** for a Small Entity:

- **\$65** Late oath or declaration Surcharge.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

A copy of this notice MUST be returned with the response.

LAMONT M HUNTER

Telephone: (703) 308-9140 EXT 201

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/529,043	PCT/PH02/00018	0002200USU/2280

FORM PCT/DO/EO/905 (371 Formalities Notice)